INTERNATIONAL SEARCH REPORT

International application No. PCT/IB2005/051474

According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC ⁷ F02M61/06 F02M45/02 F02M61/04 F02M45/00 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Chinese Utility Models and Inventions from 1985 to now Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Databases: CNPAT EPODOC WPI PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No X US4528951A (Keiichi Yamada) 16.Jul.1985 (16.07.1985) fig2 column4 line 21-column 6 line 34 1-3,5,7-11,13-16 X IP59-20524A (ISUZU MOTORS LTD) 2.Feb1984 (02.02.1984) fig.1 and related description 1-3,5,7-11,13-16						
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B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7 F02M61/06 F02M45/02 F02M61/04 F02M45/00 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Chinese Utility Models and Inventions from 1985 to now Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Databases: CNPAT EPODOC WPI PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No X US4528951A (Keiichi Yamada) 16.Jul.1985 (16.07.1985) fig2 column4 line 21-column 6 line 34 1-3,5,7-11,13-16 X IP59-20524A (ISUZU MOTORS LTD) 2.Feb1984 (02.02.1984) fig.1 and related description 1-3,5,7-11,13-16						
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C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No X US4528951A (Keiichi Yamada) 16.Jul.1985 (16.07.1985) fig2 column4 line 21-column 6 line 34 X IP59-20524A (ISUZU MOTORS LTD) 2.Feb1984 (02.02.1984) fig.1 and related description 1-3,5,7-11,13-16 X IP61-89919A (ISUZU MOTORS LTD) 8.May1986 (8.05.1986) fig.4 and related description 1-3,5,7-11,13-16						
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X JP61-89919A (ISUZU MOTORS LTD) 8.May1986 (8.05.1986) fig.4 and related description 1-3,5,7-11,13-16						
A DF01-65919A (18020 MOTOKS EID) 6.342431500 (0.0015500) 118.						
X JP58-165566A (NISSAN MOTOR) 30.Sep.1983 (30.09.1983) fig.4 and related description 1-3,5,7-11,13-16						
X DE2905396A1 (BOSCH GMBH ROBERT) 14.Aug.1980 (14.08.1980) fig.1 and related description 1-3,5,7-11,13-16						
X GB2084249A (WISSENSCHAFTLICH-TECH) 7.Apr.1982 (7.04.1982) fig.2 and related description 1-3,5,7-11,13-16						
A GB2137280A (ORANGE GMBH) 3.Oct.1984 (3.10.1984) fig.1 and related description 1-16						
☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.						
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "T" later document published after the international filing date or priority date and not in conflict with the application by cited to understand the principle or theory underlying the invention						
"E" earlier application or patent but published on or after the international filing date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone						
"L" document which may throw doubts on priority claim (8) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when to document is combined with one or more other such						
other means skilled in the art						
"P" document published prior to the international filing date but later than the priority date claimed						
Date of the actual completion of the international search Date of mailing of the international search report						
20.0ct2005 (20.10.2005) 17 · NOV 2005 (17 · 1 · 1 · 20 · 0 · 5)						
Name and mailing address of the ISA/CN The State Intellectual Property Office, the P.R.China 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China 100088 Telephone No. 86-10-62085391						
Facsimile No. 86-10-62019451 Form PCT/ISA /210 (second sheet) (April 2005)						

INTERNATIONAL SEARCH REPORT

International application No. PCT/IB2005/051474

Box No	. п	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)					
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:							
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:							
2. 🏻	Clair	s Nos.: 17					
2. KJ	becaus	that no meaningful international search can be carried out, specifically:					
	the ex	tent of protection defined by the claim 17 is not clear.					
-							
3. 🗆	Claim becau	s Nos.: se they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)							
This International Searching Authority found multiple inventions in this international application, as follows:							
1.	As all	required additional search fees were timely paid by the applicant, this international search report covers all searchable s.					
2. 🗆	- Authority did not invite nayment						
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:						
4. 🗆	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:						
	•						
Remark on protest The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.							
		The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.					
		No protest accompanied the payment of additional search fees.					
i .							

Form PCT/ISA /210 (continuation of first sheet (2)) (April 2005)

INTERNATIONAL SEARCH REPORT Information on patent family members

International application No. PCT/IB2005/051474

Patent Documents referred	Publication	Patent family	Publication
in the Report	date	member(s)	date
US4528951A ·	16.Jul.1985 (16.07.1985)	none	
JP59-20524A	2.Feb1984 (02.02.1984)	none	
JP61-89919A	8.May1986 (8.05.1986)	none	
JP58-165566A	30.Sep.1983 (30.09.1983)	none	
DE2905396A1	14.Aug.1980 (14.08.1980)	none	
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	•	DD153167 A	23.Dec.1981 (23.12.1981)
		DE3133388 A	23.Sep1982 (23.09.1982)
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Form PCT/ISA /210 (patent family annex) (April 2005)